

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|--|------------------|---------|------------------|
| L1 | 96 | piperazine and (carbon adj dioxide) and "95".clas. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/07/12 15:46 |
| L2 | 65 | 1 and (potassium carbonate) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/07/12 15:50 |
| L3 | 27 | 1 and (potassium adj carbonate) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/07/12 15:51 |
| L4 | 1557 | 95/36,149,193,216,187,230,236.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/07/12 16:36 |
| L5 | 973 | 423/220,223.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/07/12 16:36 |
| L6 | 2490 | 4 or 5 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/07/12 16:36 |
| L7 | 88 | 6 and piperazine | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/07/12 16:36 |

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| S1 | 25840 | "95".clas. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/18 09:34 |
| S2 | 146 | S1 and \$5piperazine | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/18 09:35 |
| S3 | 96 | S2 not alcohol | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/18 09:35 |
| S4 | 73 | S3 and ((carbon adj dioxide) or ("co.sub. 2")) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/18 09:35 |
| S5 | 853491 | S4 and (potassium adj carbonate) or (sodium adj carbonate) or (lithium adj carbonate) or (hydroxide) or (bisulfide) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/18 09:37 |
| S6 | 30 | S4 and ((potassium adj carbonate) or (sodium adj carbonate) or (lithium adj carbonate) or (hydroxide) or (bisulfide)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/18 09:37 |
| S7 | 0 | "423.cla.s" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/18 09:45 |

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| S8 | 134964 | "423".clas. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/18 09:45 |
| S9 | 399 | S8 and \$5piperazine | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/18 09:45 |
| S10 | 244 | S9 not alcohol | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/18 09:45 |
| S11 | 133 | S10 and ((carbon adj dioxide) or ("co.sub. 2")) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/18 09:45 |
| S12 | 60 | S11 and ((potassium adj carbonate) or (sodium adj carbonate) or (lithium adj carbonate) or (hydroxide) or (bisulfide)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/18 09:45 |
| S13 | 21 | S12 and (weight adj percent) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/18 09:45 |
| S14 | 48 | S6 or S13 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/18 10:01 |

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| S15 | 21 | S14 not Alkanolamine | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/18 10:01 |
| S16 | 13 | S14 not (Alkanolamine or mea or mdea) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/18 10:02 |
| S17 | 1 | "10551834" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/18 10:08 |
| S18 | 1590 | S8 and (piperazine or amino\$2ethyl\$2piperazine or hydroxy\$2ethyl\$2piperazine or ethylene\$2diamine or dimethyl\$2ethylenediamine) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/18 10:11 |
| S19 | 813 | S18 not (Alkanolamine or mea or mdea or alcohol) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/18 10:11 |
| S20 | 233 | S19 and ((carbon adj dioxide) or ("co.sub. 2")) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/18 10:11 |
| S21 | 152 | S20 and ((potassium adj carbonate) or (sodium adj carbonate) or (lithium adj carbonate) or (hydroxide) or (bisulfide)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/18 10:11 |

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| S22 | 744 | S18 not (Alkanolamine or mea or mdea or alcohol or diethanolamine) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/18 10:26 |
| S23 | 190 | S22 and ((carbon adj dioxide) or ("co.sub. 2")) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/18 10:26 |
| S24 | 882342 | 23and ((potassium adj carbonate) or (sodium adj carbonate) or (lithium adj carbonate) or (hydroxide) or (bisulfide)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/18 10:26 |
| S25 | 122 | S23 and ((potassium adj carbonate) or (sodium adj carbonate) or (lithium adj carbonate) or (hydroxide) or (bisulfide)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/18 10:27 |
| S26 | 247 | S1 and (piperazine or amino\$2ethyl\$2piperazine or hydroxy\$2ethyl\$2piperazine or ethylene\$2diamine or dimethyl\$2ethylenediamine) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/18 10:27 |
| S27 | 85 | S26 not (Alkanolamine or mea or mdea or alcohol or diethanolamine) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/18 10:28 |
| S28 | 47 | S27 and ((carbon adj dioxide) or ("co.sub. 2")) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/18 10:28 |

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| S29 | 17 | S28 and ((potassium adj carbonate) or (sodium adj carbonate) or (lithium adj carbonate) or (hydroxide) or (bisulfide)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/18 10:28 |
| S30 | 55 | ("1783901" "1951992" "3071433" "3653810" "3965244" "3989811").PN. OR ("4336233").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/18 10:38 |
| S31 | 35 | S30 and piperazine | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/18 10:38 |
| S32 | 17 | ("4211761" "4336233" "4624838" "5017350" "5019361" "5061465" "5744110" "6036931" "6165433" "6337059" "6582498").PN. OR ("7056482").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/18 10:40 |
| S33 | 67 | S30 or S32 | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/18 10:40 |
| S34 | 40 | S33 and piperazine | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/18 10:40 |
| S35 | 39 | S34 and ((carbon adj dioxide) or ("co.sub. 2")) | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/18 10:41 |
| S36 | 2 | "3,449,239" .pn. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/18 10:45 |
| S37 | 11 | ("1132679" "3877673" "4067703" "4208387").PN. OR ("5017350").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/18 11:15 |
| S38 | 3 | (S37 and piperazine) | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/18 11:15 |
| S39 | 9 | ("4094957" "4336233" "5017350" "5019361" "5209914" "5618506" "5904908" "6337059").PN. OR ("6423282").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/18 11:16 |
| S40 | 9 | (S39 and piperazine) | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/18 11:16 |
| S41 | 11 | ("3653804" "4094957" "4364915" "4892674").PN. OR ("5904908").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/18 11:18 |
| S42 | 6 | (S41 and piperazine) | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/18 11:19 |

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| S43 | 21608 | | "95".clas. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/06/18 11:21 |
| S44 | 25840 | | "95".clas. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/18 11:22 |
| S45 | 134964 | | "423".clas. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/18 11:22 |
| S46 | 157925 | | S44 or S45 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/18 11:22 |
| S47 | 1759 | S46 and (piperazine or aminoethylpiperazine or hydroxyethylpiperazine or ethylenediamine or dimethyl\$2ethylenediamine) | | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/18 11:23 |
| S48 | 736 | S47 and ((carbon adj dioxide) or ("co.sub. 2")) | | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/18 11:24 |
| S50 | 474 | S48 and (((potassium or sodium or lithium) adj carbonate) or bisulfide or hydroxide) | | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/18 11:25 |
| S51 | 169 | | S50 not alcohol\$2 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/06/18 11:26 |

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| S52 | 1 | "10551834" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/07/12 13:33 |
|-----|---|------------|--|----|-----|------------------|